

Appl. No. 10/709,027
Amdt. dated January 26, 2006
Reply to Office action of December 6, 2005

Amendments to the Claims:

Listing of Claims:

Claim 1 (currently amended) A liquid crystal display device comprising:

a liquid crystal display panel having two parallel substrates and a
5 liquid crystal layer sealed between the substrates;
a light source for generating light beams; and
a dispersion film positioned between the liquid crystal display
panel and the light source, the dispersion film being a diffuser and
having a plurality of bar-like structures arranged along a first
10 direction and facing the light source;
wherein the dispersion film is utilized for enabling brightness of
the light beams generated from the light source to be increased when
a viewing angle is increased, and further utilized for enabling the
liquid crystal display device to display an image with uniform
15 brightness.

Claim 2 (original) The liquid crystal display device of claim 1 further
comprising a first diffuser positioned between the dispersion film and
the liquid crystal display panel for uniformly distributing light beams
20 that pass through the dispersion film.

Claim 3 (cancelled)

Claim 4 (original) The liquid crystal display device of claim 1 further
25 comprising a light-guiding plate positioned between the light source and
the dispersion film for guiding the light beams generated by the light
source, a third diffuser positioned between the light-guiding plate and
the dispersion film for uniformly distributing the light beams, and a

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reflective plate positioned under the light-guiding plate for reflecting light beams into the liquid crystal display panel.

5 **Claim 5 (original)** The liquid crystal display device of claim 1 wherein a cross section of each of the bar-like structures along a second direction that is perpendicular to the first direction has a shape of a triangle.

10 **Claim 6 (original)** The liquid crystal display device of claim 1 wherein a cross section of each of the bar-like structures along a second direction that is perpendicular to the first direction has a shape of a trapezoid.

15 **Claim 7 (original)** The liquid crystal display device of claim 6 wherein two adjacent trapezoids among the trapezoids are separated by a round depression.

20 **Claim 8 (original)** The liquid crystal display device of claim 1 wherein a cross section of each of the bar-like structures along a second direction that is perpendicular to the first direction has a shape of a semicircle.

25 **Claim 9 (original)** The liquid crystal display device of claim 1 wherein each of the bar-like structures comprises a linear structure, a bent structure, or a wavy structure.

30 **Claim 10 (original)** The liquid crystal display device of claim 1 wherein the dispersion film comprises a plastic film.

35 **Claim 11 (original)** A liquid crystal display device comprising:
 a liquid crystal display panel having two parallel substrates and a

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liquid crystal layer sealed between the substrates;
a light source for generating light beams;
a first dispersion film positioned between the liquid crystal display panel and the light source having a plurality of first bar-like structures arranged along a first direction and facing the light source;
and
a second dispersion film positioned between the first dispersion film and the light source having a plurality of second bar-like structures arranged along a second direction and facing the light source;
wherein the first direction is approximately perpendicular to the second direction, and the first dispersion film and the second dispersion film are utilized for enabling brightness of the light beams generated from the light source to be increased when a viewing angle is increased and further utilized for enabling the liquid crystal display device to display an image with uniform brightness.

Claim 12 (original) The liquid crystal display device of claim 11 wherein a cross section of each of the first bar-like structures along the second direction comprises a shape of a triangle, a trapezoid, or a semicircle.

Claim 13 (original) The liquid crystal display device of claim 11 wherein a cross section of each of the second bar-like structures along the first direction comprises a shape of a triangle, a trapezoid, or a semicircle.

Claim 14 (original) The liquid crystal display device of claim 11 wherein each of the first bar-like structures and the second bar-like structures comprises a linear structure, a bent structure, or a wavy structure.

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Claim 15 (original) The liquid crystal display device of claim 11 further comprising a light-guiding plate positioned between the light source and the second dispersion film for guiding the light beams generated by the 5 light source, a diffuser positioned between the light-guiding plate and the second dispersion film for uniformly distributing the light beams, and a reflective plate positioned under the light-guiding plate for reflecting light beams into the liquid crystal display panel.

10 Claim 16 (original) The liquid crystal display device of claim 11 wherein each of the first dispersion film and the second dispersion film comprises a plastic film.

Claim 17 (currently amended) A liquid crystal display device comprising:
15 a liquid crystal display panel having two parallel substrates and a liquid crystal layer sealed between the substrates;
a light source for generating light beams; [[and]]
a dispersion film positioned between the liquid crystal display panel and the light source having a plurality of pyramid structures
20 facing the light source;
a light-guiding plate positioned between the light source and the dispersion film for guiding the light beams generated by the light source;
a diffuser positioned between the light-guiding plate and the dispersion film for uniformly distributing the light beams; and
a reflective plate positioned under the light-guiding plate for reflecting light beams into the liquid crystal display panel;
25 wherein the dispersion film is utilized for enabling brightness of

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the light beams generated from the light source to be increased when a viewing angle is increased, and further utilized for enabling the liquid crystal display device to display an image with uniform brightness.

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Claim 18 (original) The liquid crystal display device of claim 17 wherein the dispersion film comprises a plastic film.

10 Claim 19 (original) The liquid crystal display device of claim 17 wherein the pyramid structures are arranged in a matrix.

Claim 20 (cancelled)